

Antenna System for Ultra-Wideband Radar Applications

Abstract

5 Antenna systems suitable for ultra-wideband radar applications, e.g.
ground penetrating radar, through-wall radar systems, are disclosed in which
backward electromagnetic radiation leakage, which is detrimental to antenna
performance, is eliminated, and thereby enhancing the forward radiation
performance of the antenna system. This necessarily results in insignificant
10 electromagnetic interference to proximate antenna systems. Accordingly, an
antenna array may be provided in which multiple antenna systems may be
juxtaposed to one another even without a gap between adjacent antenna
systems.

15 (Figure 1A)